

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-5 (Canceled)

Claim 6 (Currently Amended): ~~The system of claim 5 further comprising~~ A hydraulic proportioning system comprising:

a fluid actuated motor having a driven motor shaft, the motor being in fluid communication with a fluid source;

a first pump having a drive shaft, an inlet and an outlet, the inlet of the first pump connectable to a first chemical;

a drive clutch connected to the driven motor shaft and the drive shaft;

an injector manifold in fluid communication with the fluid source and having an inlet in fluid communication with the outlet of the first pump, wherein the injector manifold has an outlet;

a reaction tube in fluid communication with the injection manifold outlet, the reaction tube comprising:

an inlet;

an outlet; and

a check valve connected to the outlet;

a chamber, wherein the reaction tube is disposed to extend into the chamber and wherein the chamber comprises:

a chamber inlet in fluid communication with the fluid source; and

a chamber outlet;  
a check valve the check valve being in fluid communication with the outlet of the first pump  
and the inlet of the injector manifold; and  
a second pump, connected to the drive shaft of the first pump and powered thereby, and a  
second chemical wherein the second chemical mixes with the first chemical in the  
reaction tube and then mixes with fluid from the fluid source in the chamber and are  
discharged from the chamber outlet, the second pump comprising:  
an second pump inlet;  
a second pump outlet; and  
a second pump check valve in fluid communication with the second pump outlet and  
the injector manifold inlet.

Claim 7 (Currently Amended): ~~The system of claim 1 further comprising:~~ A hydraulic  
proportioning system comprising:

a fluid actuated motor having a driven motor shaft, the motor being in fluid communication  
with a fluid source;  
a first pump having a drive shaft, an inlet and an outlet, the inlet of the first pump  
connectable to a first chemical;  
a drive clutch connected to the driven motor shaft and the drive shaft;  
an injector manifold in fluid communication with the fluid source and having an inlet in fluid  
communication with the outlet of the first pump, wherein the injector manifold has  
an outlet;

a second pump connected to the drive shaft of the first pump and powered thereby, the second pump having an inlet and an outlet, the inlet of the second pump connectable to a second chemical;

a first tube connected to the injector manifold and receiving the first chemical from the first pump, the first tube having an outlet in fluid communication with the ~~chamber;~~ reaction tube; and

a second tube connected to the injector manifold and receiving the second chemical from the second pump, the second tube having an outlet in fluid communication with the ~~chamber; and~~ reaction tube.

~~a pair of injection check valves, each of the check valves connected to one of the outlets of the first and second tubing.~~

Claim 8 (Original): The system of claim 7 further comprising a chamber, and wherein the first and second tubing are disposed to extend into the chamber, the chamber having a chamber inlet in fluid communication with the fluid source so that the first chemical and the second chemical from the first and second tubing mix with fluid from the fluid source in the chamber and is discharged from the chamber outlet.

Claim 9 (Original): The system of claim 8 further comprising a pair of check valves in fluid communication with the outlets of the first and second pumps and with the inlet of the injector manifold.

Claim 10 (Original): The system of claim 9 wherein the chamber has a transparent portion.

Claim 11 (Original): The system of claim ((1))7 wherein the driven motor shaft is reciprocatingly driven by the fluid actuated motor, and wherein the drive clutch further comprises:

an input drum rotated by the driven motor shaft;

an output mandrel connected to the drive shaft;

spring means for connecting the input drum and the output mandrel, imparting rotation to the drive shaft, and returning the input drum with the driven motor shaft.

Claim 12 (Withdrawn): An hydraulic proportioning system comprising:

an fluid actuated motor having a driven motor shaft, the motor being in fluid communication with a fluid source;

a first pump and a second pump, each with an inlet and an outlet, having a common drive shaft;

a drive clutch connected to the driven motor shaft and to the drive shaft, the drive clutch further comprising:

an input drum rotated by the driven motor shaft;

an output mandrel connected to the drive shaft;

spring means for connecting the input drum and the output mandrel, imparting rotation to the drive shaft, and returning the input drum with the driven motor;

an injector manifold having:

an outlet;

a first inlet connectable to a first chemical;

a second inlet connectable to a second chemical;

a pair of check valves, each one of the check valves in fluid communication with one  
of the outlet of the first pump and the outlet of the second pump;

a chamber with a chamber inlet in fluid communication with the fluid source and a chamber  
outlet; and

a first tube and a second tube supported by the injector manifold and disposed to extend into  
the chamber, both the first and second tubing in fluid communication with the  
injection manifold outlet, each tube comprising:

an inlet;

an outlet; and

a check valve connected to the outlet.

Claim 13 (Withdrawn): An hydraulic proportioning system comprising:

a fluid actuated motor having a driven motor shaft, the motor being in fluid communication  
with a fluid source;

a first pump having a drive shaft, an inlet and an outlet, the inlet of the first pump  
connectable to a first chemical;

connection means for connecting the driven motor shaft of the fluid actuated motor to the  
drive shaft of the first pump; and

an injector manifold in fluid communication with the fluid source and having an inlet in fluid communication with the outlet of the first pump.

Claim 14 (Withdrawn): A method for producing a source of  $\text{ClO}_2$ , the method comprising:

- driving a driven motor-shaft of a water motor, the motor being in fluid communication with
  - a water source;
- driving a common drive shaft of a first protic acid pump and a second chemical pump with
  - the driven motor-shaft;
- controlling the movement of the common drive shaft with a drive clutch connected to the
  - driven motor-shaft and to the drive shaft, the drive clutch further comprising:
    - an input drum rotated by the driven motor-shaft;
    - an output mandrel connected to the drive; and
    - spring means supported between the input drum and the output mandrel;
- pumping a protic acid from a container through an injector manifold in fluid communication
  - with the water source;
- pumping a sodium chlorite solution from a container through the injector manifold;
- mixing the protic acid and the sodium chlorite solution into a mixture in the injector
  - manifold;
  - and
- dispensing the mixture from the injector manifold.

Claims 15 and 16 (Canceled)

Claim 17 (New): A hydraulic proportioning system for proportioning first and second chemicals sources for mixture with a fluid, the system comprising:

- a fluid actuated motor;

- first and second pumps driven by the fluid actuated motor, each pump having an inlet connected to a separate chemical source, wherein the output of the first and second pumps can be adjusted to determine the ratio of the first and second chemicals;

- a reaction tube comprising:

  - an inlet for receiving the first and second chemicals;

  - an outlet; and

  - a check valve connected to the outlet; and

wherein the first and second chemicals are mixed in the reaction tube and then discharged from the reaction tube outlet to mix with the fluid.